

Sub C2
B2
19. (Amended) A process for production of an unsaturated fatty acid-containing oil, characterized by culturing with aeration a microorganism belonging to the genus *Mortierella* subgenus *Mortierella* in a liquid medium containing a nitrogen source derived from soybean in a fermenter, and the unsaturated fatty acid-containing oil is collected from the cultured product, wherein the ratio of the nitrogen source derived from soybean with respect to the total nitrogen source in the medium is at least 86%.

Please add the following new claims 32-46:

Sub C4
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--32. An arachidonic acid-containing oil characterized by having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio of 35% or lower, and an arachidonic acid content of 18 to 54%.

33. An arachidonic acid-containing oil according to claim 32, characterized by being a natural oil.

34. An arachidonic acid-containing oil according to claim 32, characterized by being a microbial oil.

35. An arachidonic acid-containing oil according to claim 32, characterized by being a microbial oil obtained from a microorganism belonging to the genus *Mortierella* subgenus *Mortierella*.

36. An arachidonic acid-containing oil according to claim 32, characterized by being an oil obtained by using an arachidonic acid synthetic system of a microorganism belonging to the genus *Mortierella* subgenus *Mortierella*.

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37. A Mead acid-containing oil characterized by having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio of 35% or lower.

38. A Mead acid-containing oil characterized by having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio in a proportion of 1.2 or less with respect to the desmosterol compositional ratio.

39. A Mead acid-containing oil characterized by having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio of 35% or lower, and a 24,25-methylenecholest-5-en-3 β -ol compositional ratio in a proportion of 1.2 or less with respect to the desmosterol compositional ratio.

40. A Mead acid-containing oil according to claim 37, characterized by being a natural oil.

41. A Mead acid-containing oil according to claim 37, characterized by being a microbial oil.

42. A Mead acid-containing oil according to claim 37, characterized by being a microbial oil obtained from a microorganism belonging to the genus *Mortierella* subgenus *Mortierella*.

43. A Mead acid-containing oil according to claim 37, characterized by being an oil obtained by using a Mead acid synthetic system of a microorganism belonging to the genus *Mortierella* subgenus *Mortierella*.

44. A nutritive dietary supplement comprising a Mead acid-containing oil characterized by having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio of 35% or lower; a Mead acid-containing oil characterized by having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio in a proportion of 1.2 or less with respect to the desmosterol compositional ratio; or a Mead acid-containing oil characterized by having a 24,25-methylenecholest-5-en-3 β -ol compositional ratio of 35% or lower, and a 24,25-methylenecholest-5-en-3 β -ol compositional ratio in a proportion of 1.2 or less with respect to the desmosterol compositional ratio.

45. An immature infant formula, infant formula, baby food or pregnancy food product comprising a Mead acid-containing oil according to claim 44.

46. An animal feed comprising a Mead acid-containing oil according to claim

44.